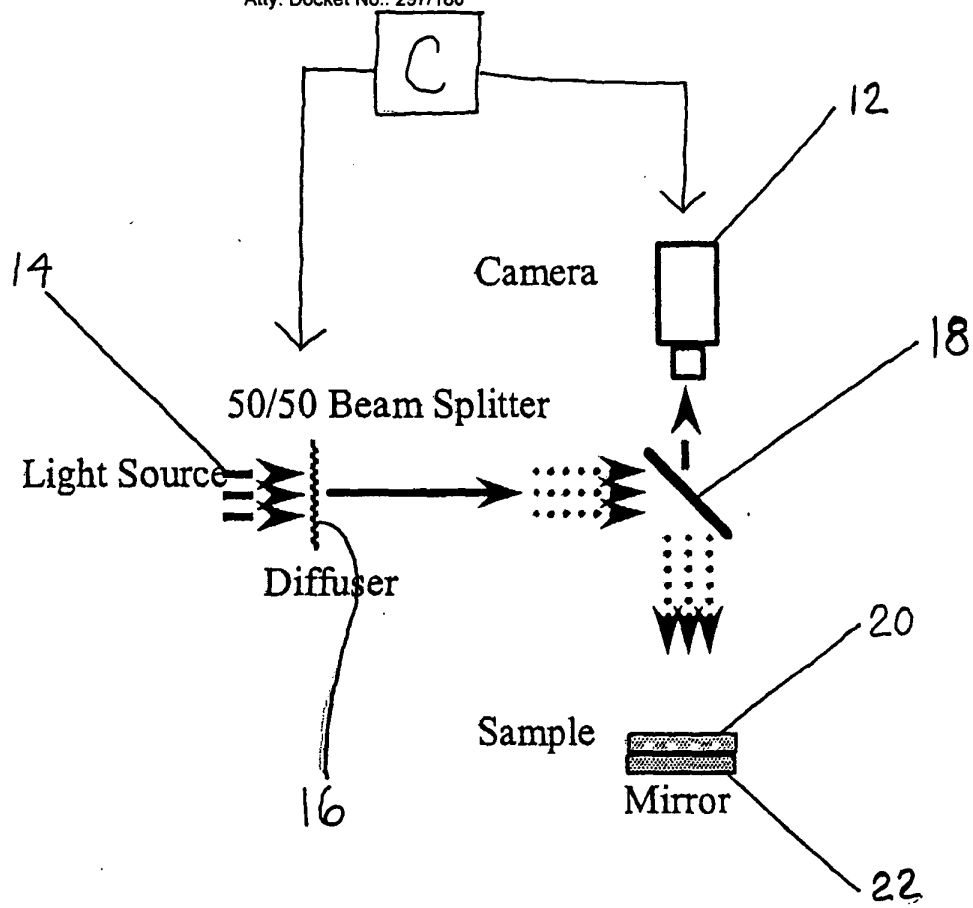


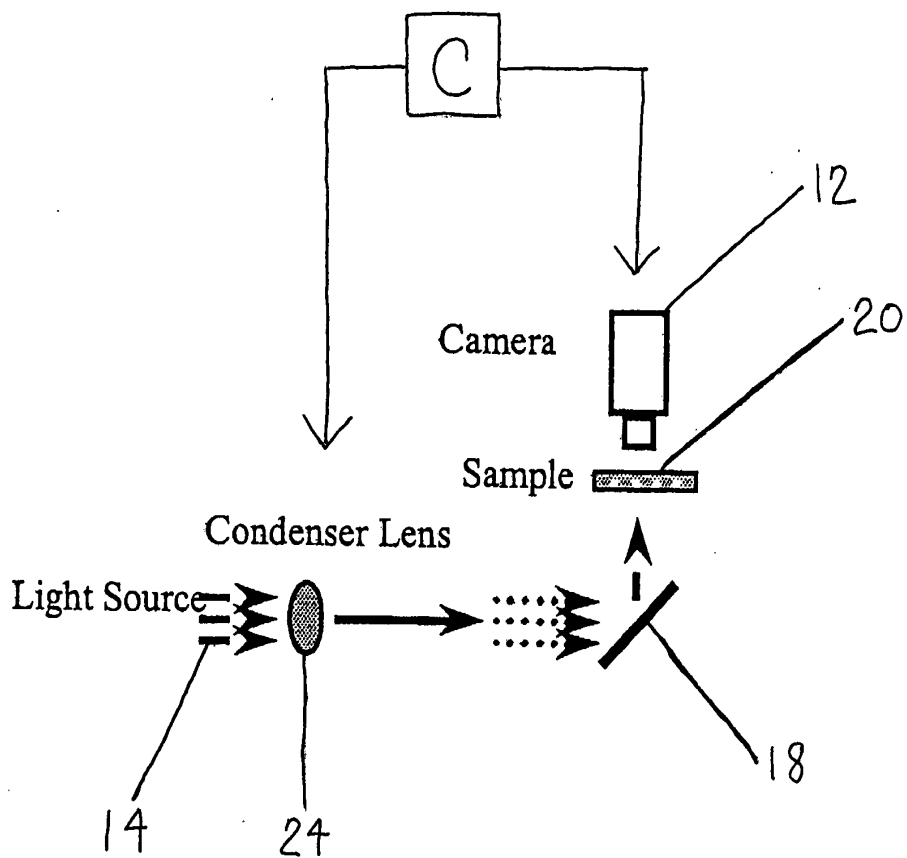
Arrangement 1

FIG. 1A



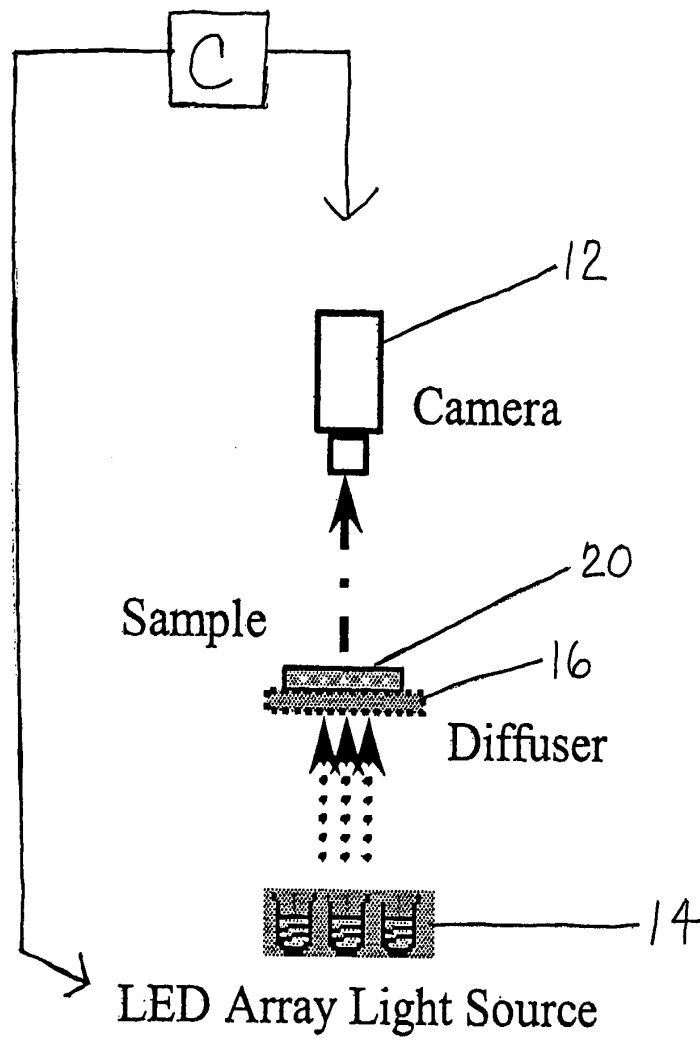
Arrangement 2

FIG. 1B



Arrangement 3

FIG. 1C



Arrangement 4

FIG. 1D

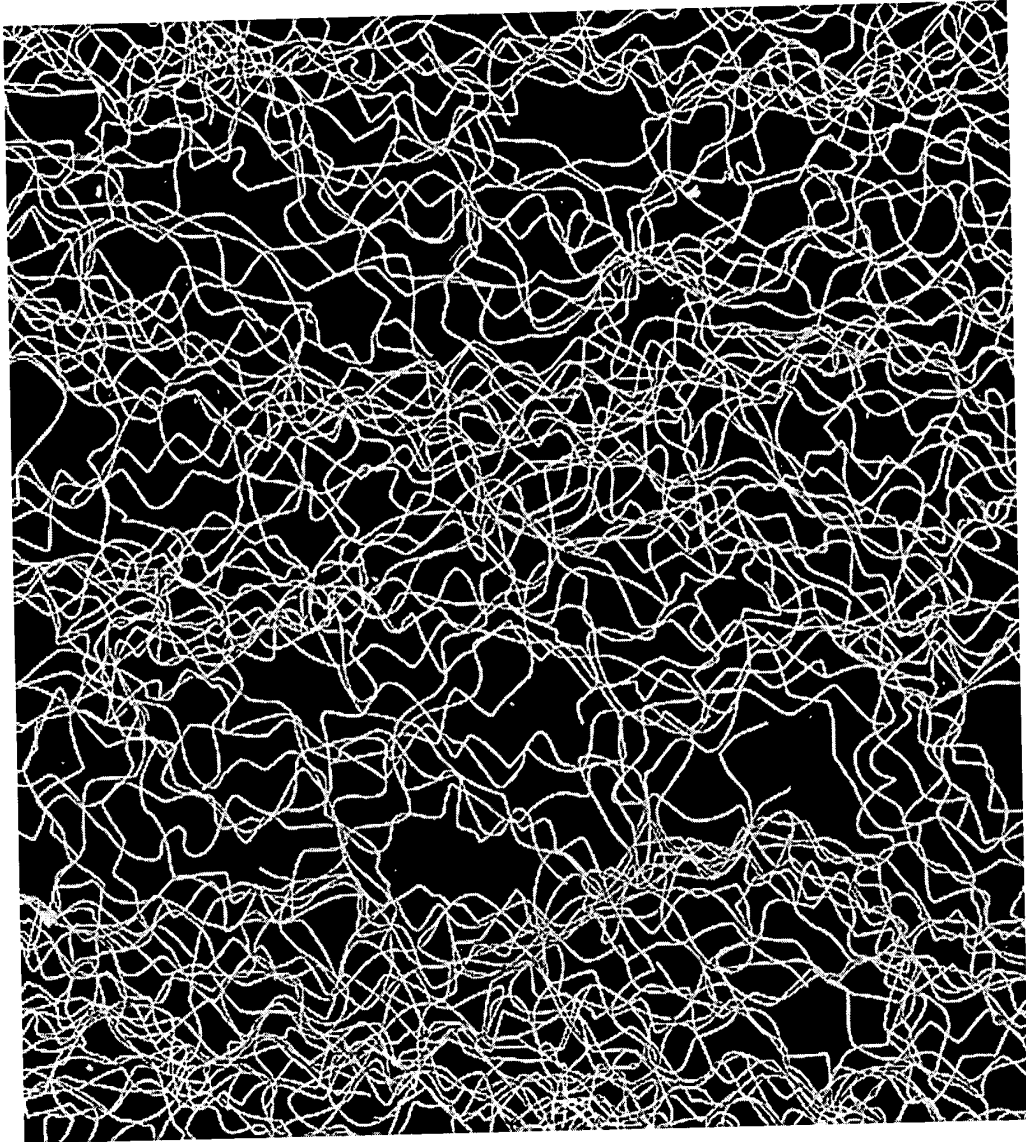


Fig. 2

Title: OPTICAL METHOD FOR EVALUATING
SURFACE AND PHYSICAL PROPERTIES OF
STRUCTURES MADE WHOLLY OR PARTIALLY
FROM FIBERS, FILMS, POLYMERS OR A
COMBINATION THEREOF
Applicant(s): Behnam Pourdeyhimi
Atty. Docket No.: 297/180



Fig. 3

Title: OPTICAL METHOD FOR EVALUATING
SURFACE AND PHYSICAL PROPERTIES OF
STRUCTURES MADE WHOLLY OR PARTIALLY
FROM FIBERS, FILMS, POLYMERS OR A
COMBINATION THEREOF
Applicant(s): Behnam Pourdeyhimi
Atty. Docket No.: 297/180

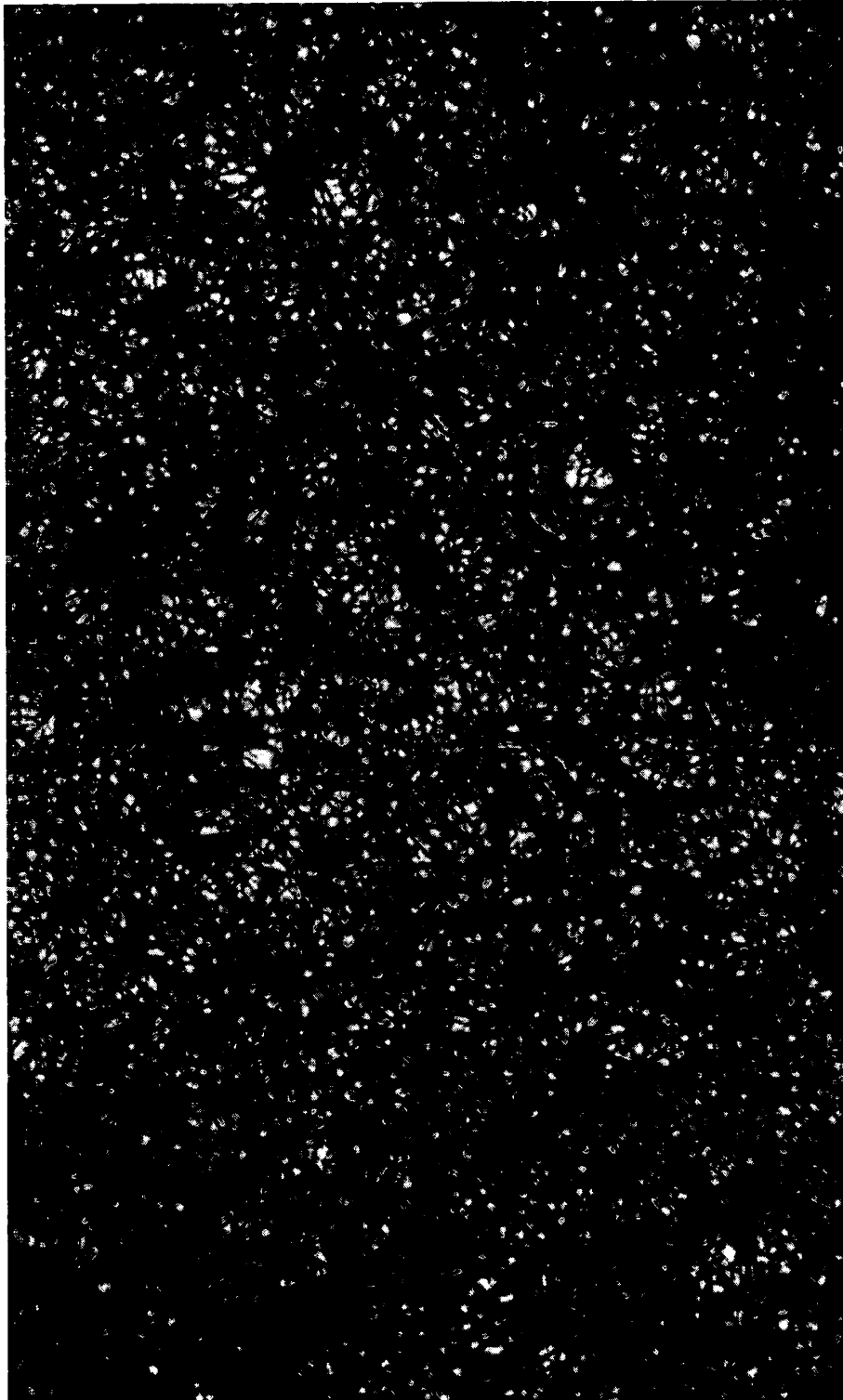


Fig. 4

Mean = 90
 Stddev = 0

FIG. 5A

Mean = 90
 Stddev = 15

FIG. 5B

Mean = 90
 Stddev = 30

FIG. 5C

Mean = 90
 Stddev = 45

FIG. 5D

Random

FIG. 5E

Fig. 5

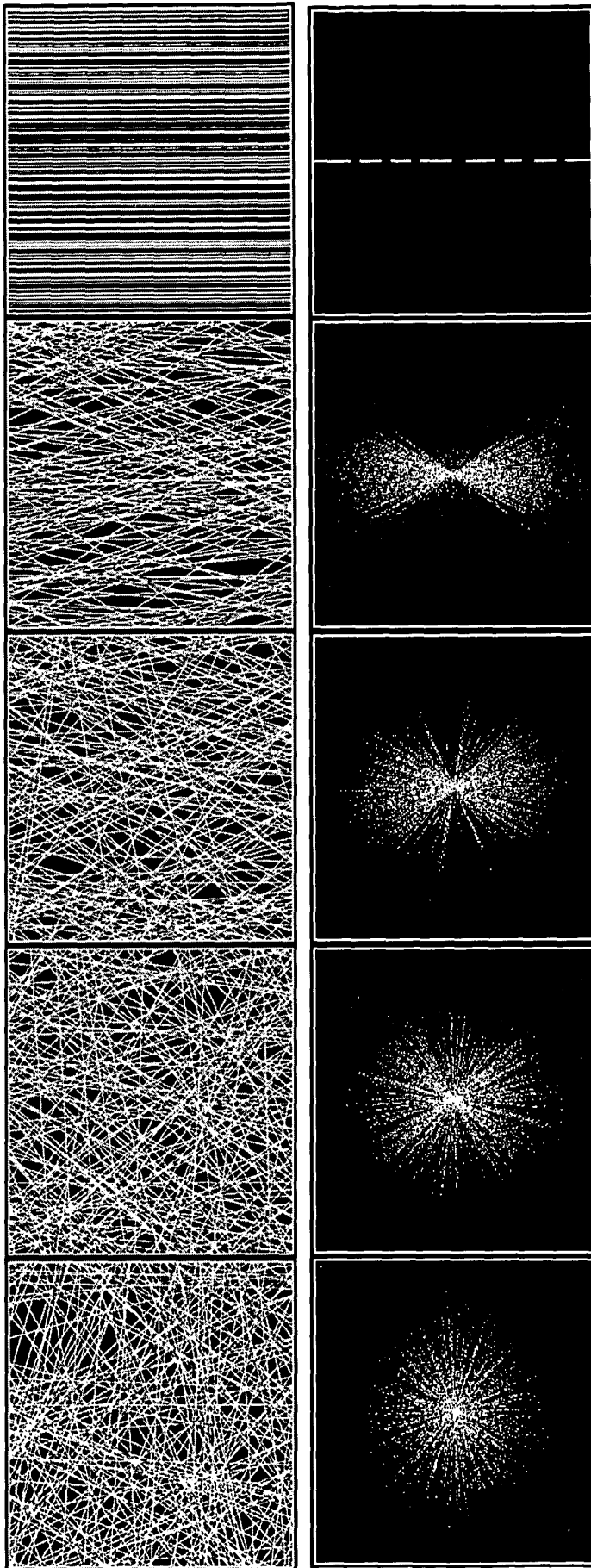


FIG. 6A

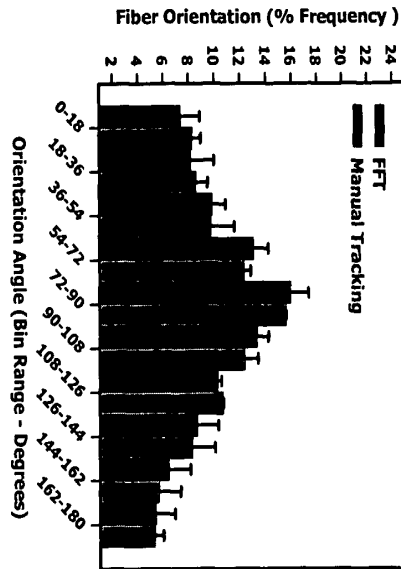


FIG. 6B

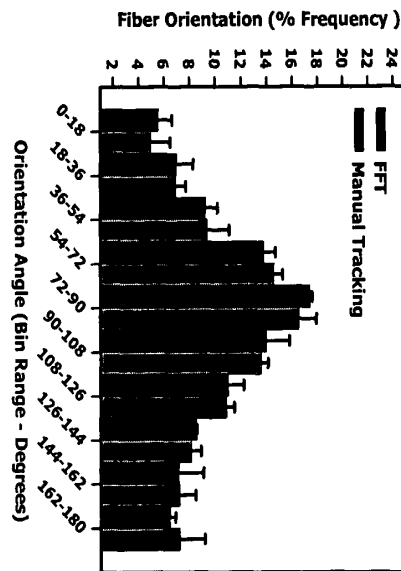
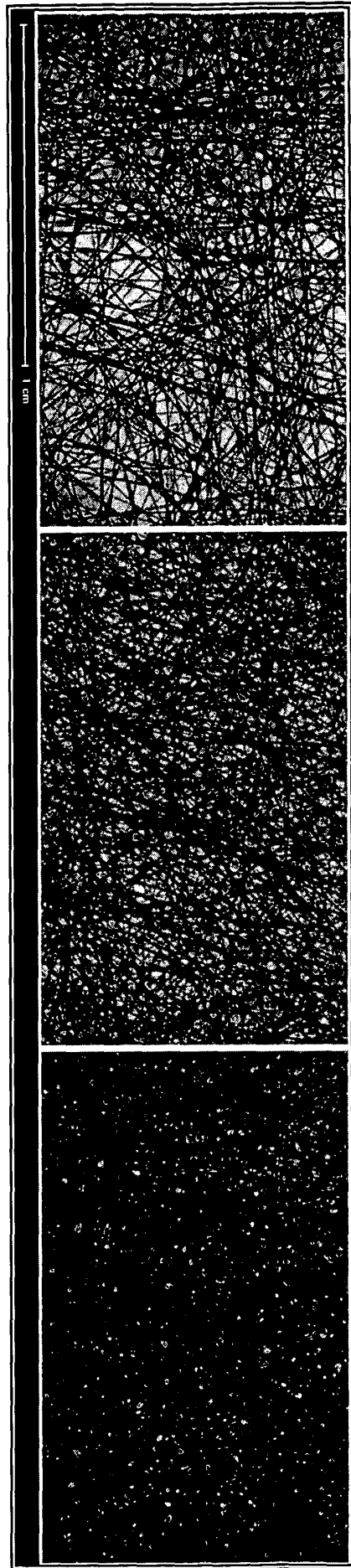
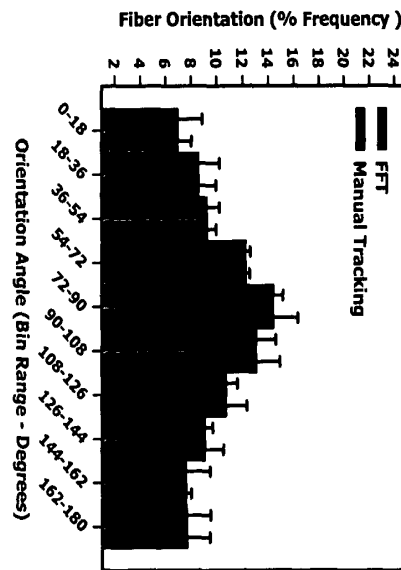


FIG. 6C

Fig. 6



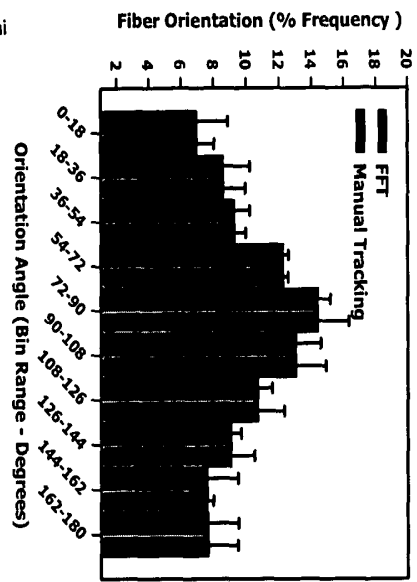


FIG. 7A

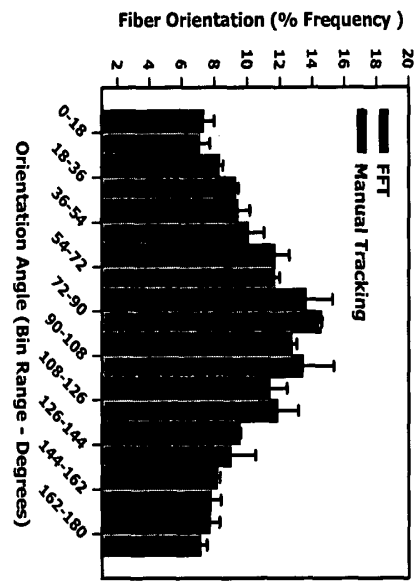


FIG. 7B

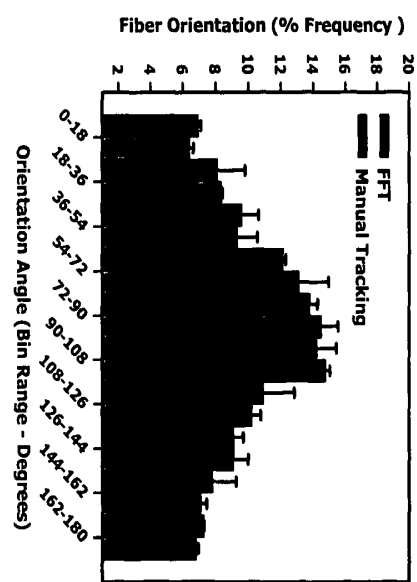
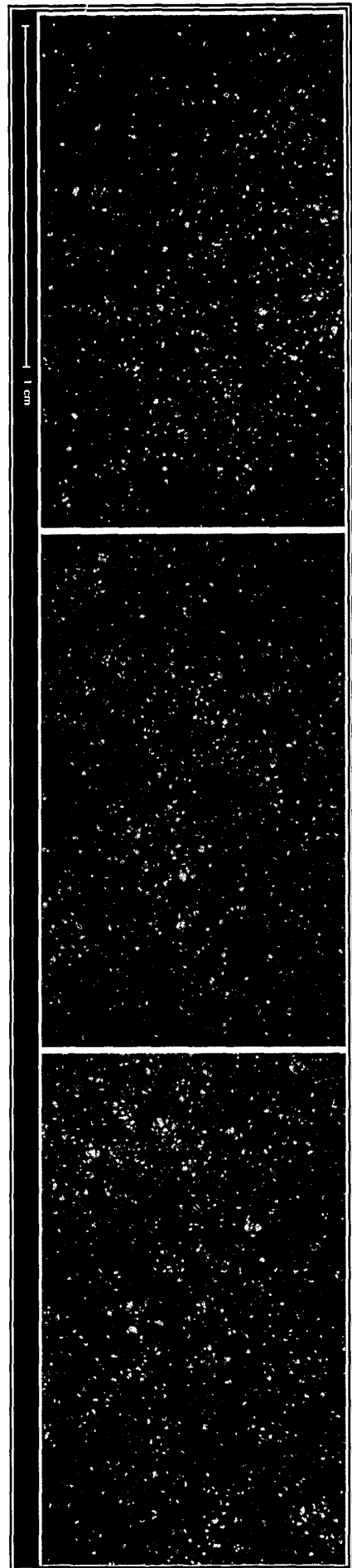


FIG. 7C
Fig. 7



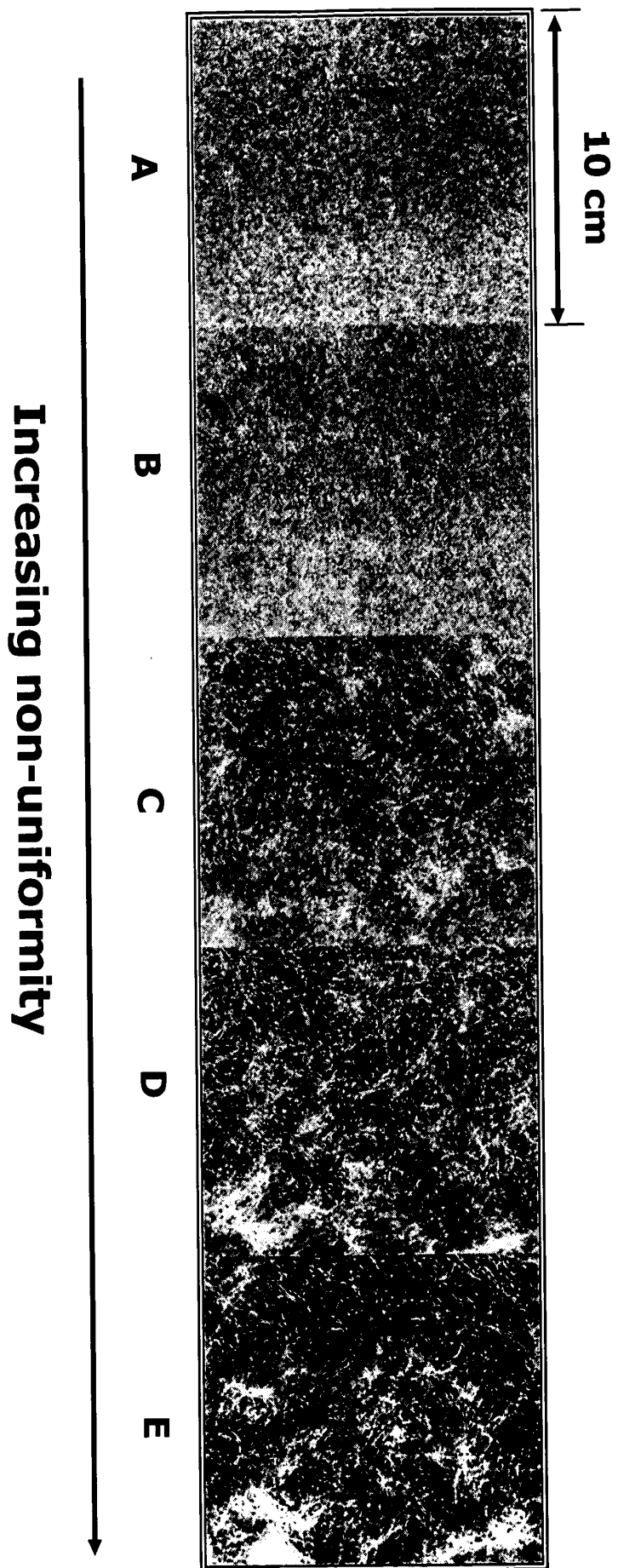


Fig. 8

FIG. 9A

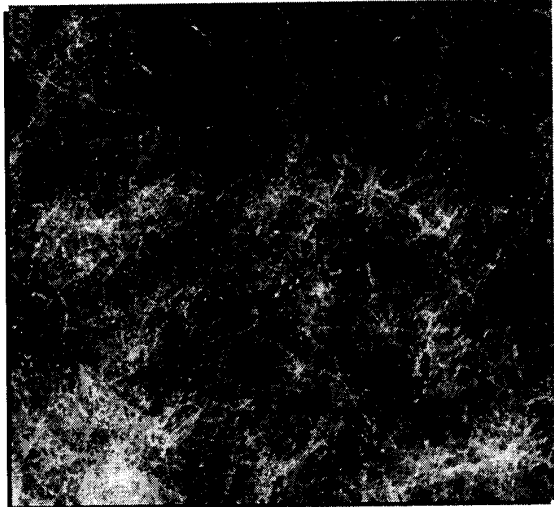
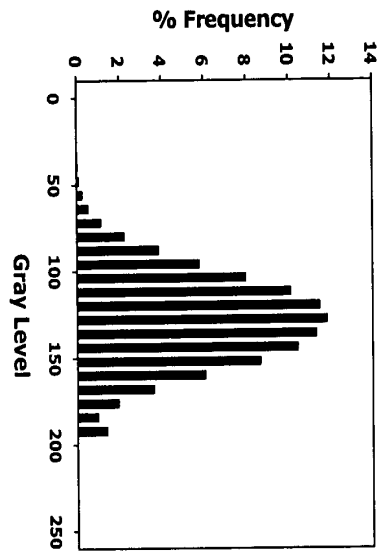


FIG. 9B

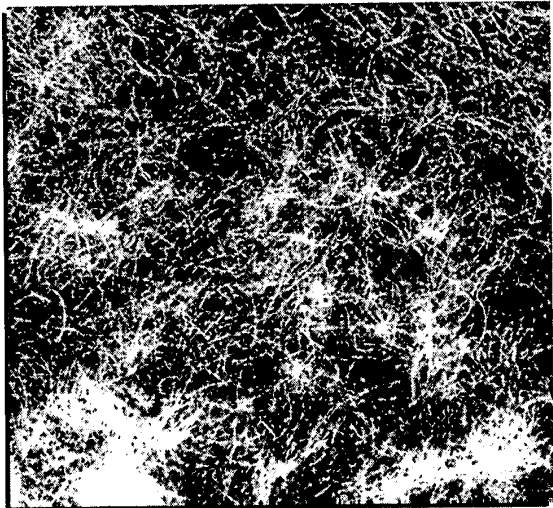
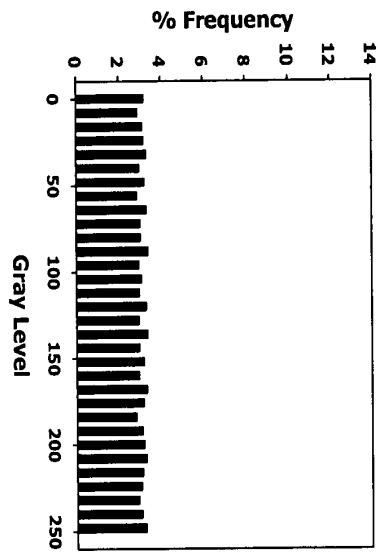


Fig. 9

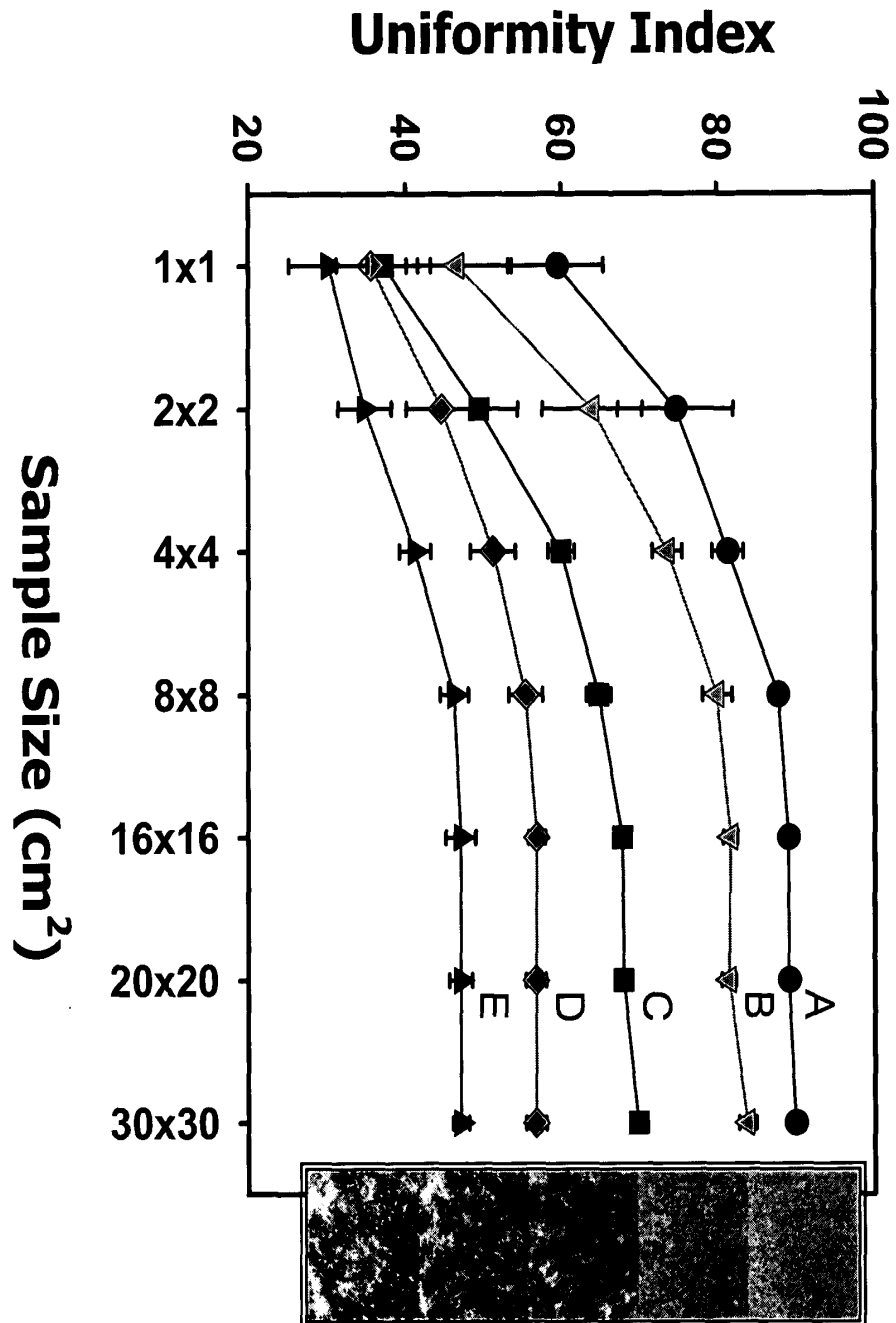


Fig. 10

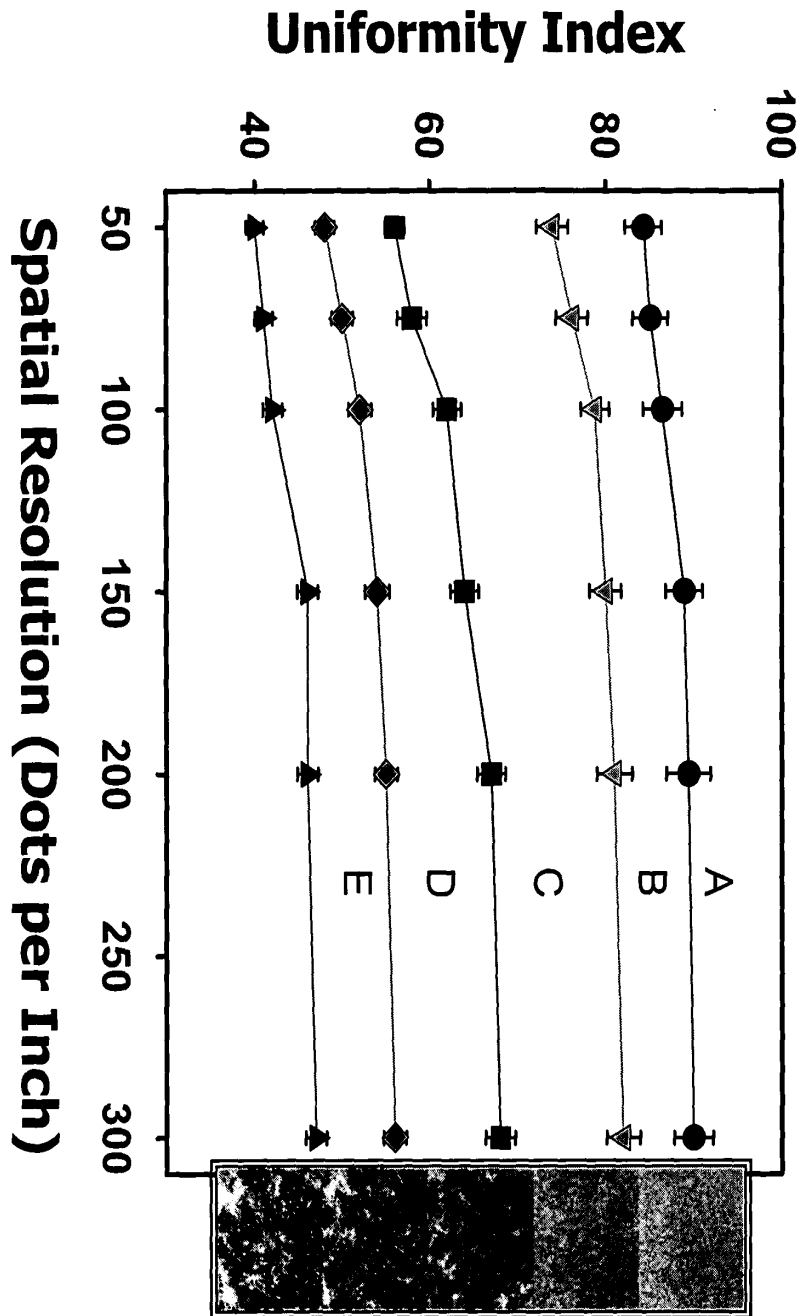


Fig. 11

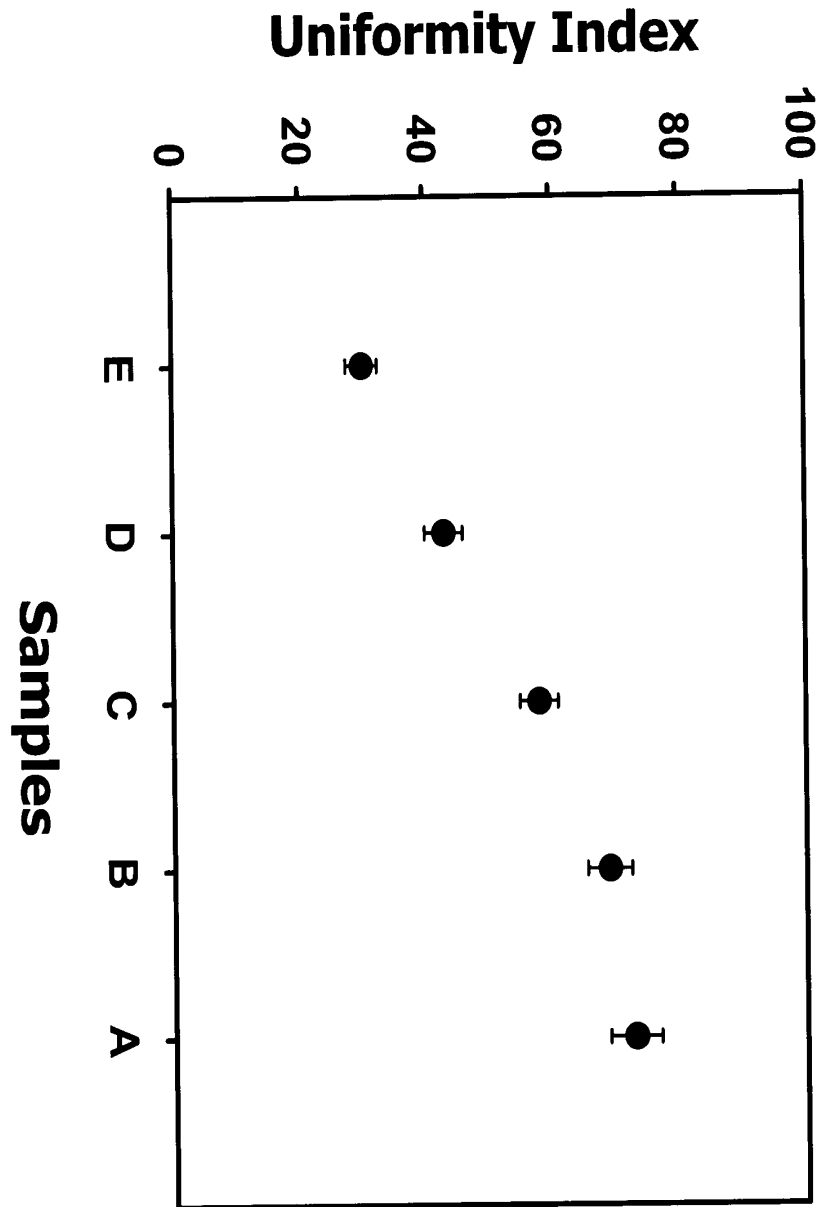


Fig. 12

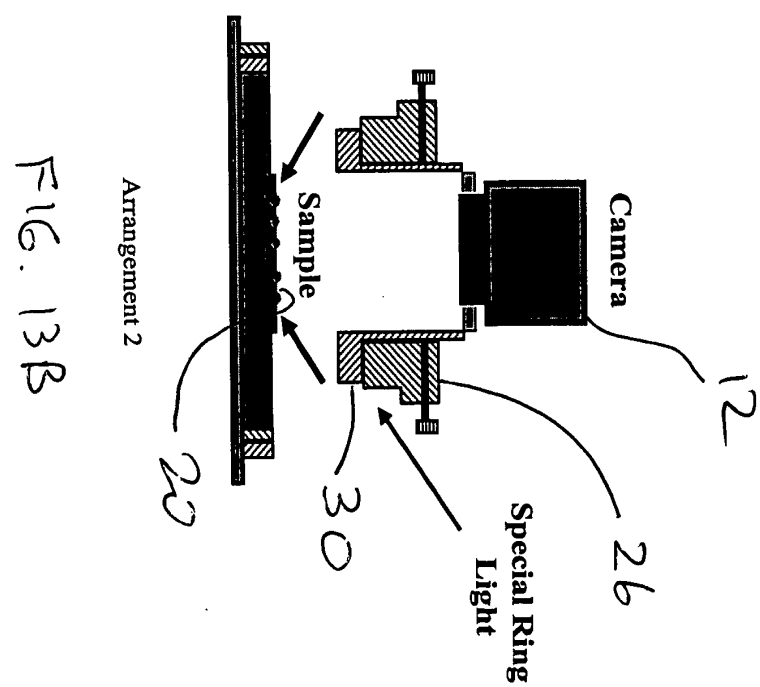
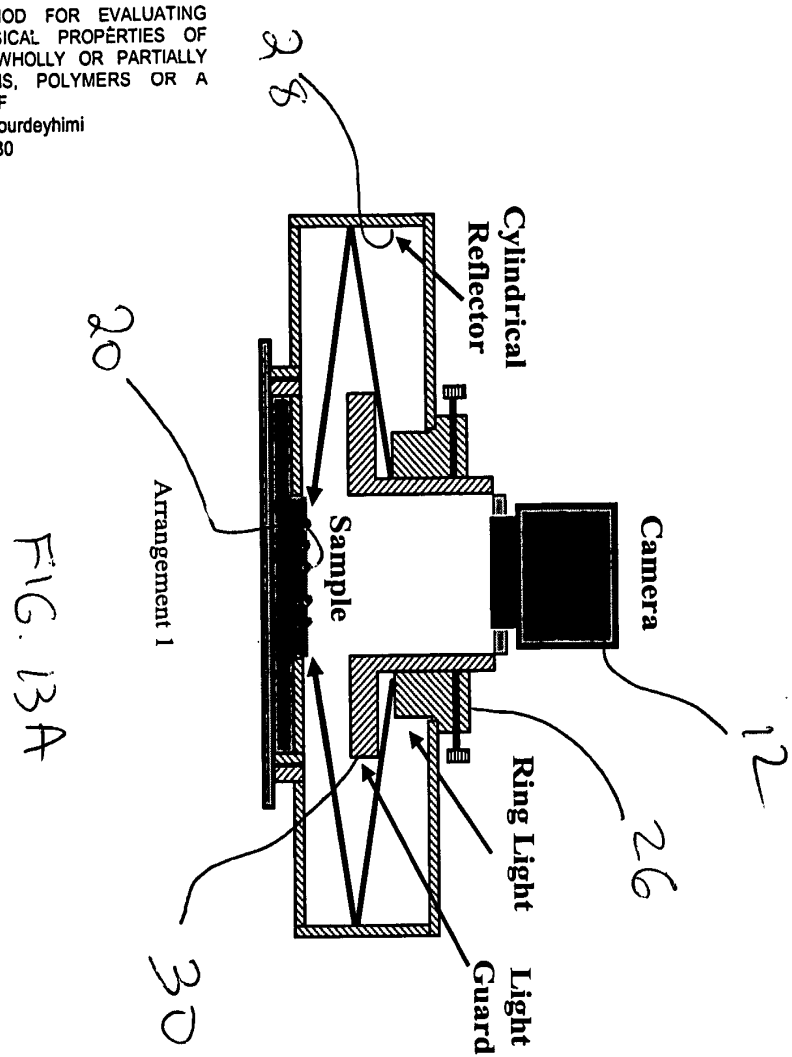


Fig. 13

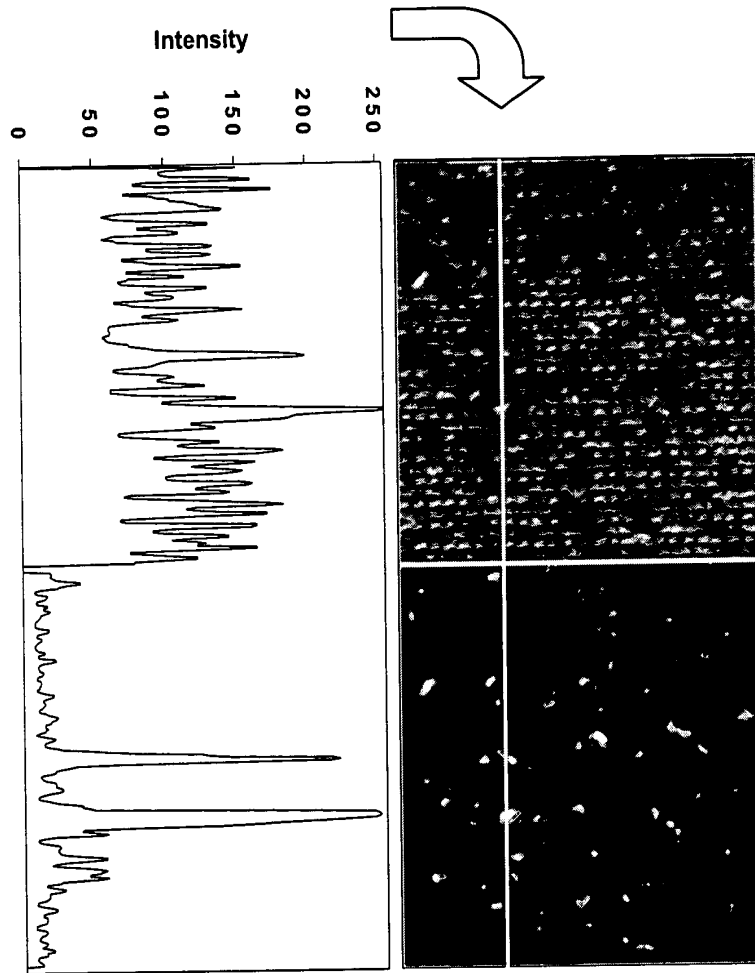


Fig. 14

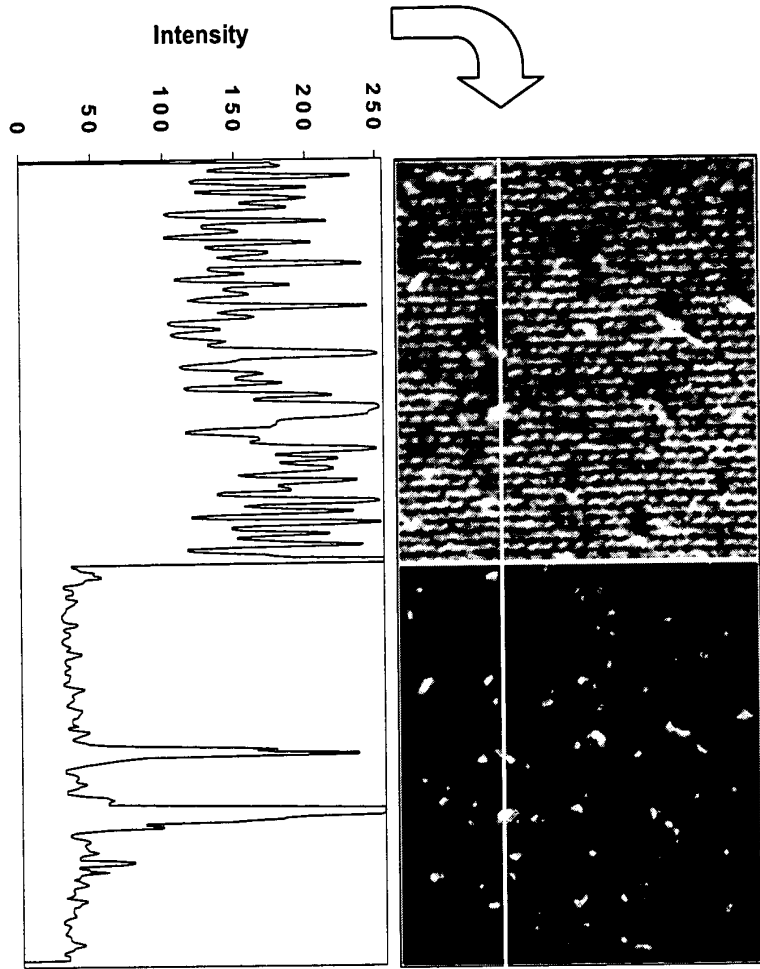


Fig. 15

Diffuse



Cylindrical

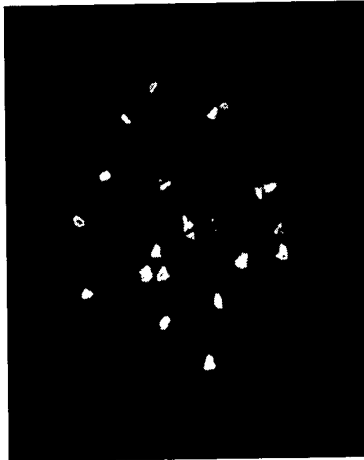


Fig. 16

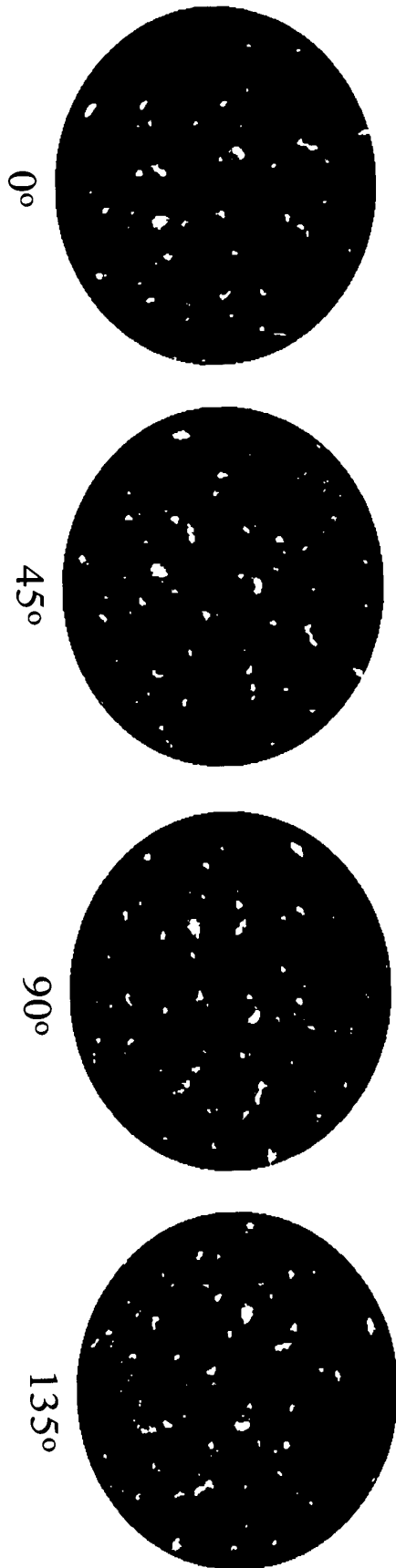


Fig. 17

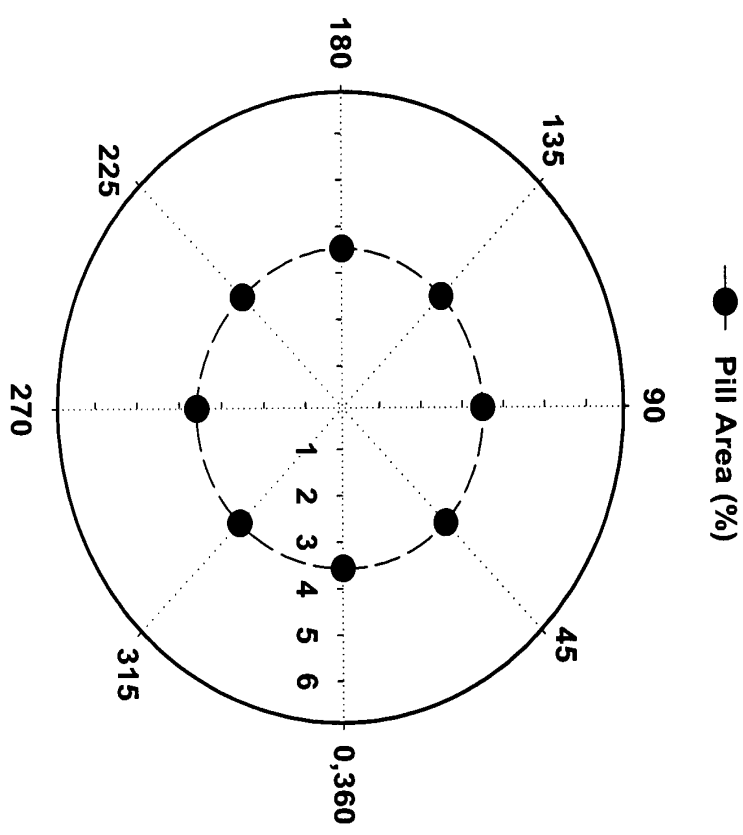


Fig. 18

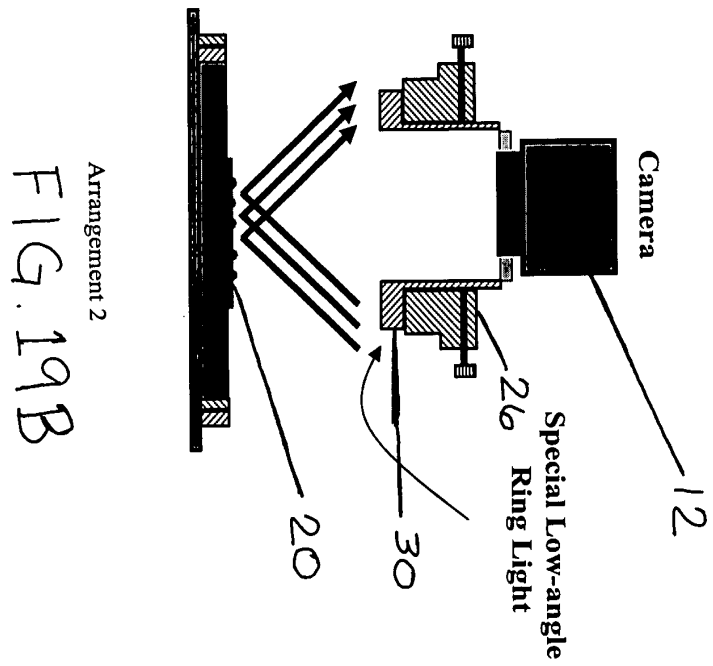
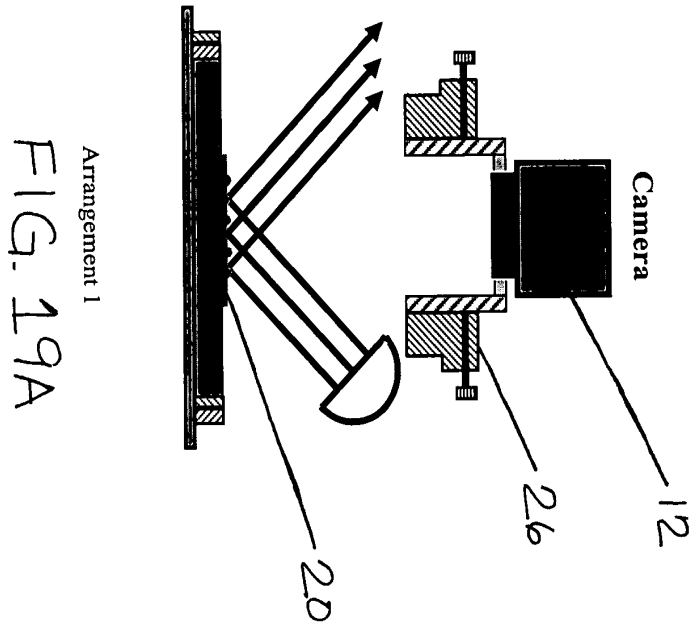


Fig. 19

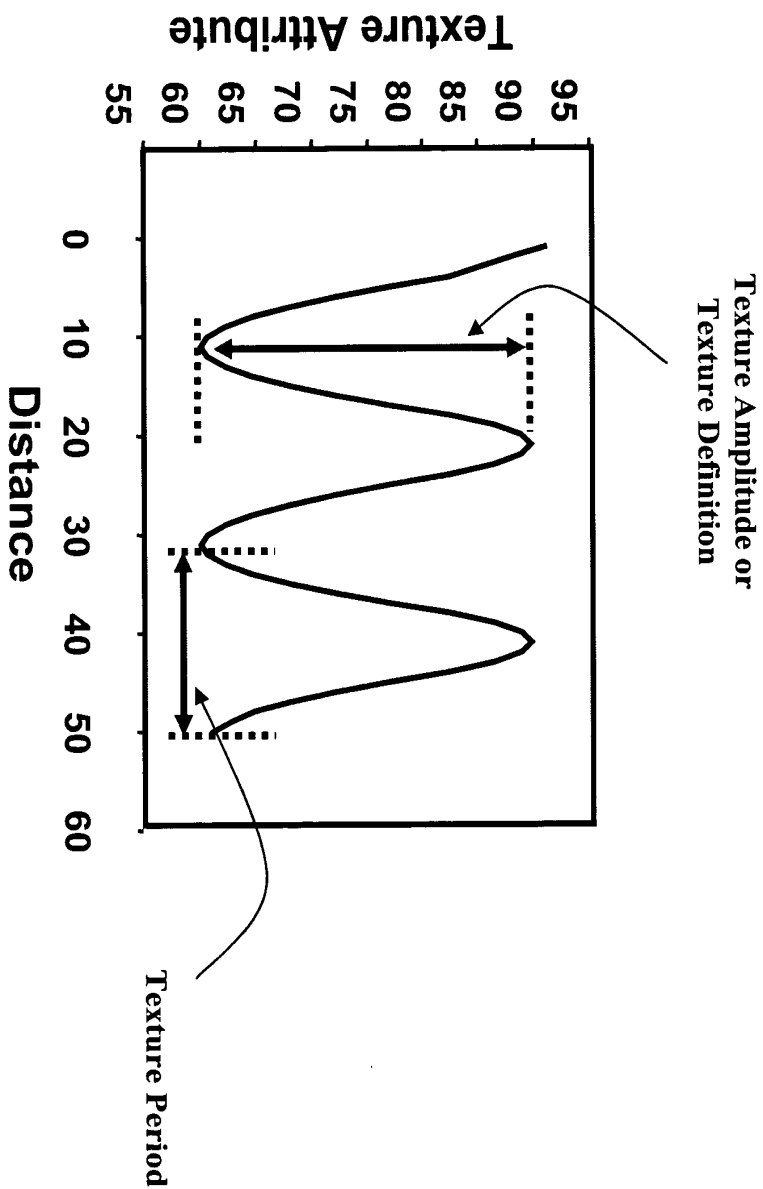


Fig. 20

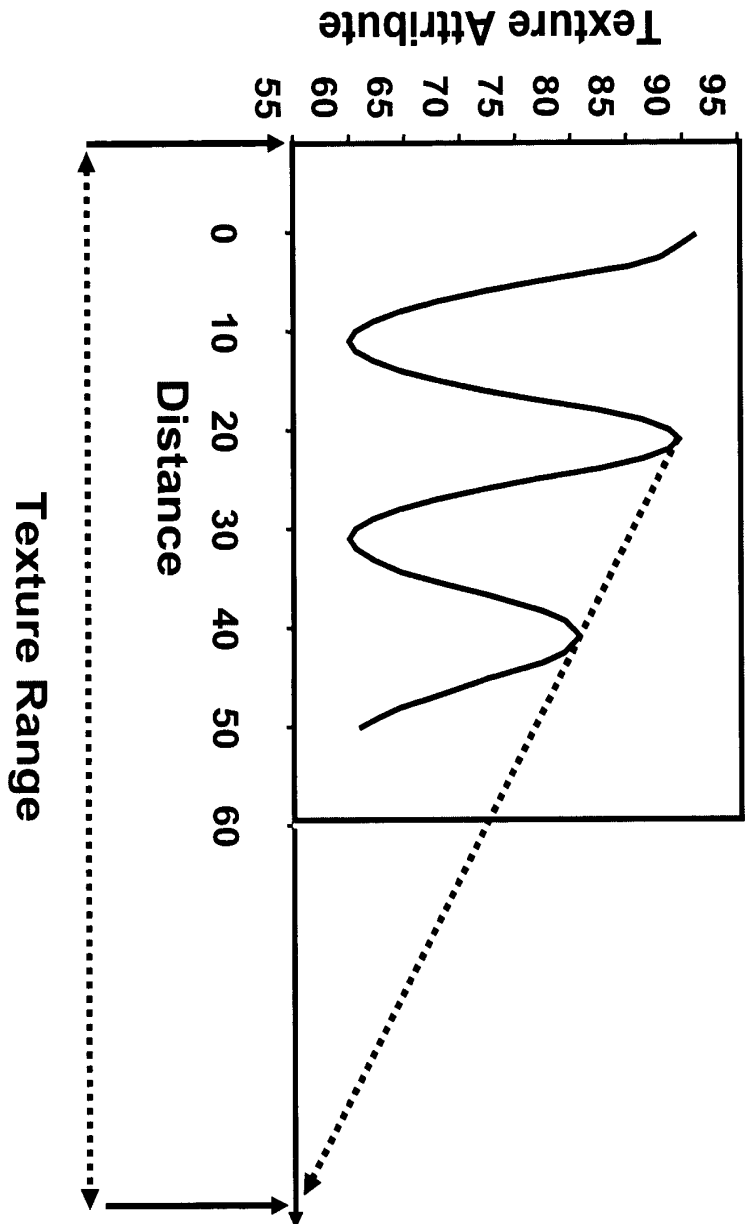


Fig. 21

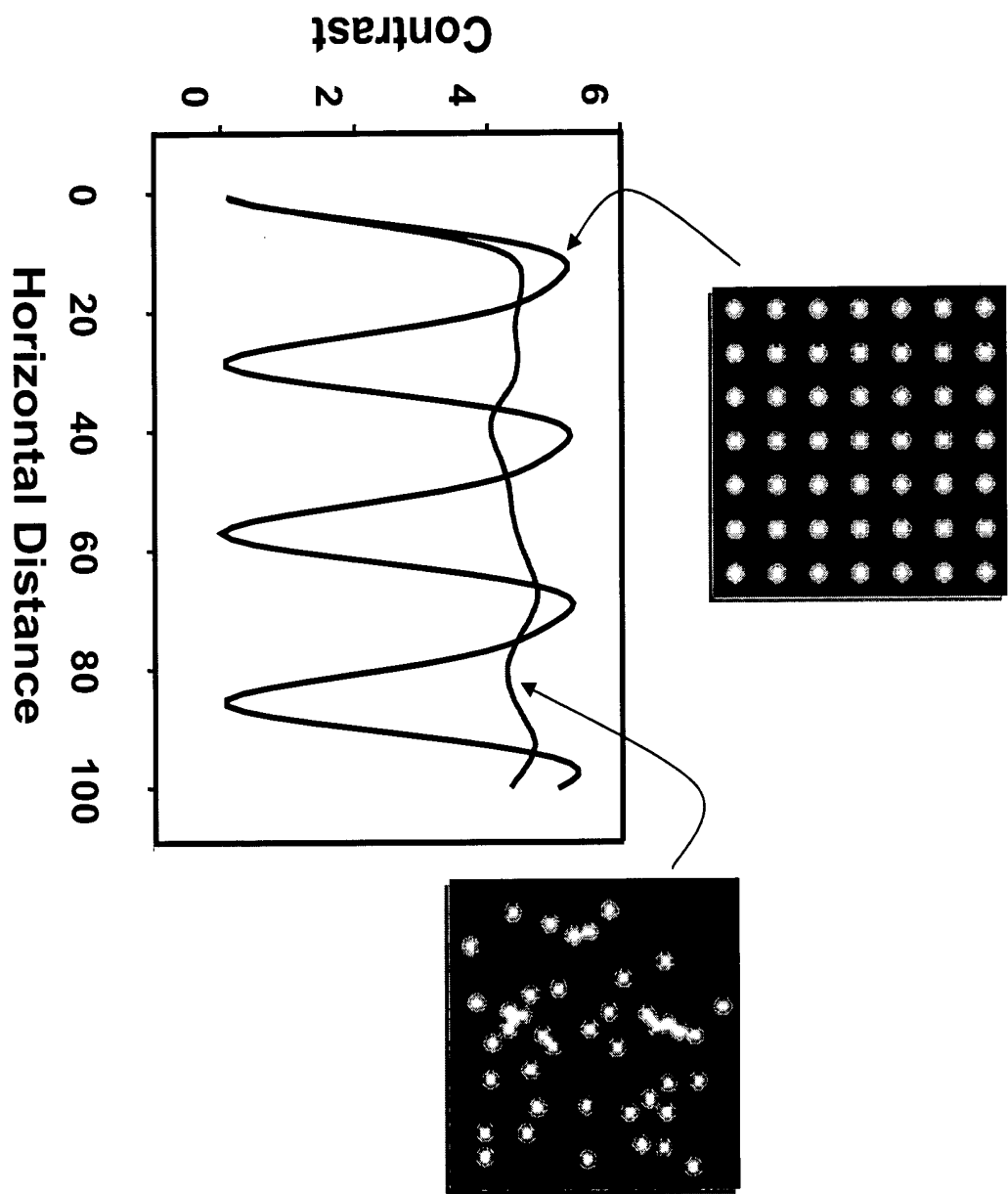


Fig. 22

FIG. 23A

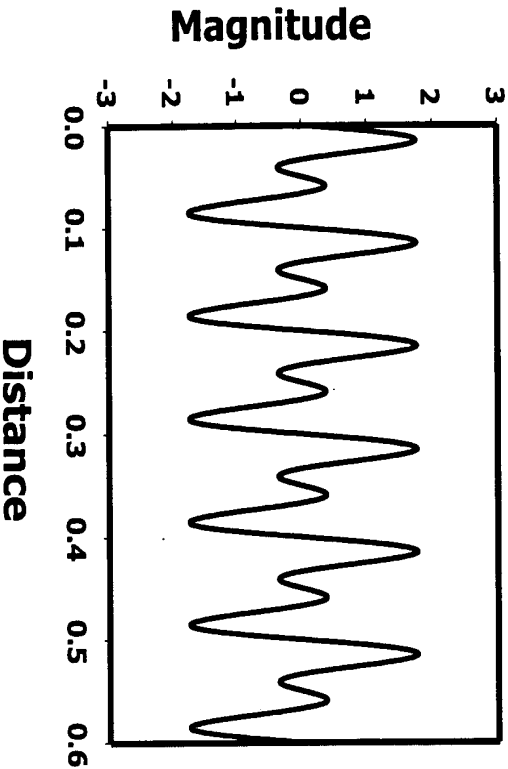
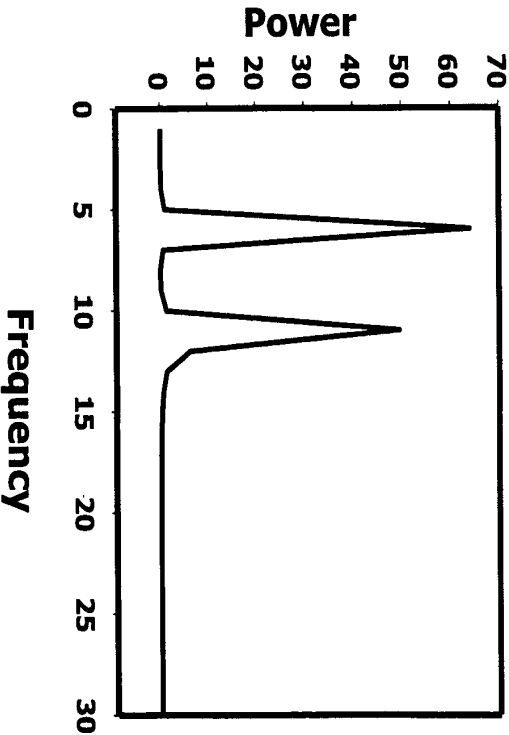


FIG. 23B



$$\text{Texture Period} = 2\pi / kF$$
$$F = \text{Estimated Frequency}$$
$$K = \text{Distance}$$

Fig. 23

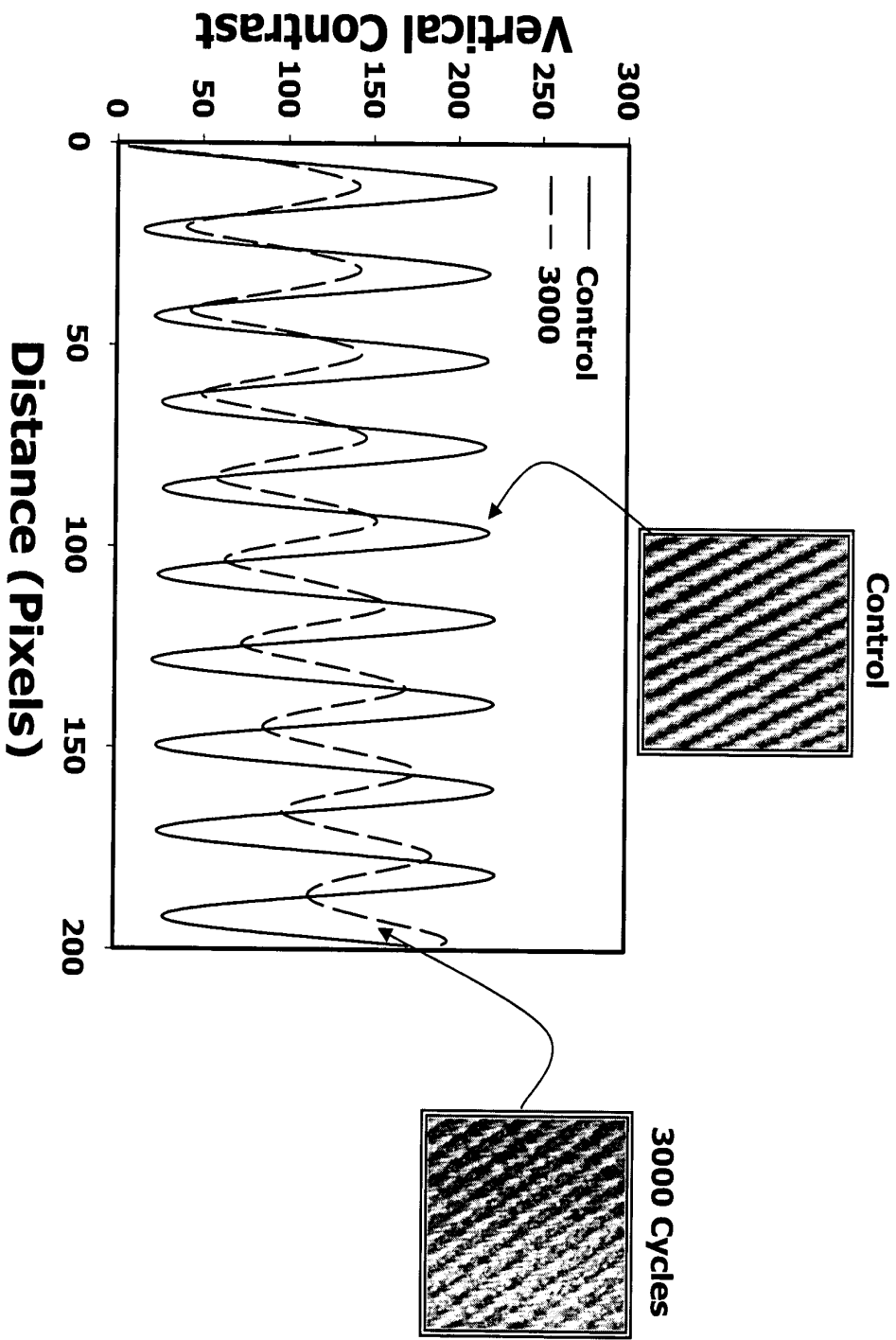


Fig. 24